15 Minute Forecast- v3

Domain Portfolio: Forecast | Domain: Short-Range Forecast | Usage Classification: **Limited Availability**

Geography: Global **Attribution Required:** No **Attribution Requirements:** N/A

Overview

The 15 Minute Forecast API is a restricted API sourced from the The Weather Company Forecast system. This TWC API returns short-range forecasts in 15 minute intervals over the course of the next 7 hours.
Note: All wind values are calculated based on wind status 10 meters above ground.

HTTP Headers and Data Lifetime - Caching and Expiration

For details on appropriate header values as well as caching and expiration definitions, please see **The Weather Company Data | API Common Usage Guide**.

Translated Fields:

This TWC API handles the translation of phrases. However, when formatting a request URL a valid language must be passed along (see the language code table for the supported codes).

- dayOfWeek
- windDirectionCardinal

URL Construction

Atomic API URL Examples:	**Aggregate Product Name**	v3-wx-forecast-fifteenminute
Atomic Request by Geocode: Required Parameters: geocode, units, language, format, apiKey=**yourApiKey**		
https://api.weather.com/v3/wx/forecast/fifteenminute?**geocode=40.58,-111.66**&units=e&language=en-US&format=json&apiKey=**yourApiKey**		
Atomic Request by IATA Code: Required Parameters: iataCode, units, language, format, apiKey=**yourApiKey**		
https://api.weather.com/v3/wx/forecast/fifteenminute?**iataCode=DEN**&units=e&language=en-US&format=json&apiKey=**yourApiKey**		
Atomic Request by ICAO Code: Required Parameters: icaoCode, units, language, format, apiKey=**yourApiKey**		
https://api.weather.com/v3/wx/forecast/fifteenminute?**icaoCode=KDEN**&units=e&language=en-US&format=json&apiKey=**yourApiKey**		
Atomic Request by Place ID: Required Parameters: placeid, units, language, format, apiKey=**yourApiKey**		
https://api.weather.com/v3/wx/forecast/fifteenminute?**placeid=25d09bc2d6efa8a2531f0ee4a81cd**&units=e&language=en-US&format=json&apiKey=**yourApiKey**		
Atomic Request by Postal Key: Required Parameters: postalKey, units, language, format, apiKey=**yourApiKey**		
https://api.weather.com/v3/wx/forecast/fifteenminute?**postalKey=81657:US**&units=e&language=en-US&format=json&apiKey=**yourApiKey**		

Data Elements & Definitions

Note: Field names are sorted alphabetically in the table below for presentation purposes. The table below does not represent the sort order of the API response.

Field Name	Description	Type	Range	Sample	Nulls Allowed
dayOfWeek	Day of week	[string]	Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday	Thursday	N
iconCode	This number is the key to the weather icon lookup. The data field shows the icon number that is matched to represent the observed weather conditions. Current list of icon codes can be found here	[integer]		30	N
iconCodeExtend	Code representing the full set sensible weather.	[integer]		3200	N
precipChance	Maximum probability of precipitation	[integer]	0 to 100	20	N
precipRate	Precipitation rate (units/hour), liquid equivalent, representing how hard the precipitation is expected to fall for the measured timeframe.	[decimal]		0.0	N
precipType	The short text describing the expected type accumulation associated with the Probability of Precipitation (POP) display.	[string]	rain,snow, precip	rain	N
relativeHumidity	The relative humidity of the air, which is defined as the ratio of the amount of water vapor in the air to the amount of vapor required to bring the air to saturation at a constant temperature. Relative humidity is always expressed as a percentage.	[integer]	0 to 100	83	N
snowRate	Snowfall rate (units/hour) representing how hard snow is expected to fall for the measured timeframe.	[decimal]		0.0	N
temperature	The temperature of the air, measured by a thermometer 1.5 meters (4.5 feet) above the ground that is shaded from the other elements. You will receive this data field in Fahrenheit degrees or Celsius degrees.	[integer]	-140 to 140 (F)	68	N
temperatureFeelsLike	Feels like temperature. An apparent temperature. It represents what the air temperature "feels like" on exposed human skin due to the combined effect of the wind chill or heat index.	[integer]	-	84	N
validTimeLocal	Time forecast is valid in local apparent time.	[ISO]	YYYY-MM-DDTHH:MM:SS-NNNN; NNNN=GMT offset	2014-08-20T10:47:59-0500	N
windDirection	Average wind direction in magnetic notation.	[integer]	0 to 359	145	N
windDirectionCardinal	Average wind direction in cardinal notation.	[string]	N , NNE , NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW	SE	N
windSpeed	The forecast of the sustained wind speed at the top of the hour. The wind is treated as a vector; hence, winds must have direction and magnitude (speed). The wind information reported in the hourly current conditions corresponds to a 10-minute average called the sustained wind speed. Sudden or brief variations in the wind speed are known as "wind gusts" and are reported in a separate data field. Wind directions are always expressed as "from whence the wind blows" meaning that a North wind blows from North to South. If you face North in a North wind the wind is at your face. Face southward and the North wind is at your back.	[integer]	-	5	N
wxPhraseLong	Sensible weather phrase up to 32 characters.	[string]		Sunny	N
wxPhraseShort	Sensible weather phrase up to 12 characters.	[string]		Sunny	N
wxSeverity	A number denoting how impactful is the forecasted weather for this hour. Can be used to determine the graphical treatment of the weather display such as using red font on weather.com.	[integer]	0 = no threat 1 = threat level increases with the next higher integer 2 = threat level increases with the next higher integer 3 = threat level increases with the next higher integer 4 = threat level increases with the next higher integer 5 = threat level increases with the next higher integer 6 = dangerous / life threatening	2	N

JSON Sample

```
// Response Collapsed for Presentation Purposes
{
        "dayOfWeek":
        ["Monday",],
        " iconCode":
        [30,],
        "iconCodeExtend":
        [3000,],
        "precipChance":
        [0,],
        "precipRate":
        [0.0,],
        "precipType":
        ["rain",],
        "relativeHumidity":
        [60,],
        "snowRate":
        [0.0,],
        "temperature":
        [72,],
        "temperatureFeelsLike":
        [68,],
        "validTimeLocal":
        ["2017-05-01T15:45:00-0600",],
        "windDirection":
        [304,],
        "windDirectionCardinal":
        ["NE",],
        "wxPhraseLong":
        ["Sunny",]
        "wxPhraseShort":
        ["Sunny",]
        "windSpeed":
        [9,],
        "wxSeverity":
        [1,]
}
```